

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: June 24, 1999, 00:38:00 ; Search time 47.48 Seconds  
(without alignments)  
687.381 Million cell updates/sec

Title: US-09-205-015-3  
Perfect score: 356  
Sequence: 1 tcgaccttggaacctatc.....atctggagctgaagaattc 356

Scoring table: IDENTITY\_NUC

Searched: 176461 seqs, 45838279 residues

Database : Issued Patents\_NA.\*  
1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq.\*  
2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/ptodata/1/ina/5C\_COMB.seq.\*  
4: /cgn2\_6/ptodata/1/ina/5D\_COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PCTUS9\_COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Query	Score	Match	Length	DB	ID	Description
C 1	37.8	10.6	7218	2	US-08-232-463-14		Sequence 14, Appl
C 2	34.2	9.6	1873	1	US-07-841-646-24		Sequence 24, Appl
C 3	34.2	9.6	1873	1	US-07-901-703-8		Sequence 8, Appl
C 4	34.2	9.6	1873	5	PCT-US90-07654-1		Sequence 1, Appl
C 5	34.2	9.6	1873	5	PCT-US92-01968-18		Sequence 18, Appl
C 6	34.2	9.6	1873	5	PCT-US93-05448-8		Sequence 8, Appl
C 7	34.2	9.6	1873	5	PCT-US93-07190-18		Sequence 18, Appl
C 8	34.2	9.6	1873	5	PCT-US93-07231-18		Sequence 18, Appl
C 9	34.2	9.6	1873	5	PCT-US93-08742-18		Sequence 18, Appl
C 10	34.2	9.6	1873	5	PCT-US93-08808-18		Sequence 18, Appl
C 11	34.2	9.6	1873	5	PCT-US93-08885-18		Sequence 18, Appl
C 12	34.2	9.6	1873	5	PCT-US93-10520-5		Sequence 5, Appl
C 13	32.6	9.2	1873	1	US-08-147-023-24		Sequence 24, Appl
C 14	32.6	9.2	1873	2	US-08-278-729A-18		Sequence 18, Appl
C 15	32.6	9.2	1873	2	US-08-480-528A-5		Sequence 5, Appl
C 16	32.6	9.2	1873	2	US-08-479-566-5		Sequence 5, Appl
C 17	32.6	9.2	1873	2	US-08-135-343A-18		Sequence 18, Appl
C 18	32.6	9.2	1873	2	US-08-406-672-18		Sequence 18, Appl
C 19	32.6	9.2	1873	2	US-08-643-563A-18		Sequence 18, Appl
C 20	32.6	9.2	1873	2	US-08-447-570-24		Sequence 24, Appl
C 21	32.6	9.2	1873	3	US-08-643-763A-18		Sequence 18, Appl
C 22	32.6	9.2	1873	3	US-08-462-623-18		Sequence 18, Appl
C 23	32.6	9.2	1873	3	US-08-451-953A-18		Sequence 18, Appl
C 24	32.6	9.2	1873	4	US-08-459-346-3		Sequence 3, Appl
C 25	32.6	9.2	1873	4	US-08-445-468A-18		Sequence 18, Appl
C 26	32.6	9.2	1873	4	US-08-901-200A-5		Sequence 5, Appl
C 27	32.6	9.2	1873	4	US-08-449-700-24		Sequence 24, Appl
C 28	32.6	9.2	1873	5	PCT-US93-07189-3		Sequence 3, Appl
C 29	29.2	8.2	3425	1	US-08-768-147B-1		Sequence 1, Appl
C 30	29.2	8.1	4887	1	US-07-789-915A-7		Sequence 7, Appl
C 31	28.8	8.1	4887	1	US-08-005-002C-7		Sequence 7, Appl
C 32	28.8	8.1	4887	2	US-08-487-203A-7		Sequence 7, Appl
C 33	28.8	8.1	1514	4	US-08-454-267-1		Sequence 1, Appl
C 34	28.2	7.9	10952	3	US-08-602-036A-1		Sequence 1, Appl
C 35	28.2	7.9	10952	4	US-08-502-374A-1		Sequence 1, Appl
C 36	28.2	7.9	10952	4	US-08-642-407A-1		Sequence 1, Appl
C 37	28	7.9	5143	3	US-08-574-043A-7		Sequence 7, Appl

C 38	27.6	7.9	5143	4	US-08-795-015-7	Sequence 7, Appl
C 39	27.6	7.8	3266	1	US-08-369-043-3	Sequence 3, Appl
C 40	27.6	7.8	988	1	US-08-243-545-5	Sequence 5, Appl
C 41	27.6	7.8	988	4	US-08-993-962-5	Sequence 5, Appl
C 42	27.6	7.8	988	5	PCT-US94-05365-5	Sequence 5, Appl
C 43	27.4	7.7	4852	1	US-07-853-913-3	Sequence 3, Appl
C 44	27.2	7.6	1890	3	US-08-374-155A-1	Sequence 1, Appl
C 45	27.2	7.6	1803	3	US-08-374-155A-9	Sequence 9, Appl

## ALIGNMENTS

RESULT 1  
US-08-232-463-14/c  
; Sequence 14, Application US/08232463  
; Patent No. 5670367  
; GENERAL INFORMATION:  
; APPLICANT: DORNER, F.  
; APPLICANT: SCHEIFLINGER, F.  
; TITLE OF INVENTION: RECOMBINANT FOMLOX VIRUS  
; NUMBER OF SEQUENCES: 52  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley & Lardner  
; STREET: 1800 Diagonal Road, Suite 500  
; CITY: Alexandria  
; STATE: VA  
; COUNTRY: USA  
; ZIP: 22313-0299  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA: US/08/232,463  
; APPLICATION NUMBER: US/08/232,463  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/07/935,313  
; FILING DATE:  
; APPLICATION NUMBER: EP 91 114 300.6  
; FILING DATE: 26-AUG-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: BENT, Stephen A.  
; REGISTRATION NUMBER: 29,768  
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703)836-9300  
; TELEFAX: (703)683-4109  
; TELEX: 899149  
; INFORMATION FOR SEQ ID NO: 14:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 7218 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; CLONE: pz9gpt-Fls  
US-08-232-463-14

Query Match 10.6%; Score 37.8; DB 2; Length 7218;  
Best Local Similarity 9.5%; Pred. No. 0.0089;  
Matches 24; Conservative 126; Mismatches 103; Indels 0; Gaps 0;  
Qy 21 agggacacagtcagcaggcaggcagcatctgcccaagcagggtggaggcagtcagct 80  
Db 1272 RRR 1213  
Qy 81 gtgggggtctgtgaaacacttgaggagcagactggcgaacctgactgactgct 140





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APPLICATION NUMBER: US 667,274
FILING DATE: 11-MAR-1991
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 752,764
FILING DATE: 30-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: PITCHER ESQ, EDMUND R
REGISTRATION NUMBER: 27,829
REFERENCE/DOCKET NUMBER: CRP-052PC
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/248-7000
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 1873 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: MURIDAE
TISSUE TYPE: EMBRYO
FEATURE:
NAME/KEY: CDS
LOCATION: 104..1393
OTHER INFORMATION: /function= "OSTEOGENIC PROTEIN"
OTHER INFORMATION: /product= "MOP1"
OTHER INFORMATION: /note= "MOP1 (CDNA)"
PCT-US92-01968-18

Query Match          9.6%   Score 34.2; DB 5; Length 1873;
Best Local Similarity 58.3%; Pred.No 0.069;
Matches 60; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

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DB    1435 AAAGGTGTGGCCCGCAAAAGTTCAGGCTCAGGAAGAGCTAGTGCGACGCCACAGGCCG 1376

QY    121  gcaaacatgcactagtctcttcctggaggccaacaggactctcg 163
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PCT-US93-05446-8/G
Sequence 8, Application PC/TUS9305446
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: PROSTHETIC DEVICES HAVING ENHANCED
TITLE OF INVENTION: OSTEOGENIC PROPERTIES
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Creative BioMolecules, Inc.
STREET: 35 South Street
CITY: Hopkinton
STATE: MA
COUNTRY: USA
ZIP: 01748
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/05446
FILING DATE: 19930608
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: PITCHER ESQ, EDMUND R
REGISTRATION NUMBER: 27,829
REFERENCE/DOCKET NUMBER: STK-057
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; ORIGINAL SOURCE:
; ORGANISM: MURIDAE
; TISSUE TYPE: EMBRYO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 104..1393
; OTHER INFORMATION: /function= "OSTEOGENIC PROTEIN"
; OTHER INFORMATION: /product= "MOP1"
; OTHER INFORMATION: /note= "MOP1 (CDNA)"
; PCT-US93-07190-18

Query Match          9.6%; Score 34.2; DB 5; Length 1873;
Best Local Similarity 58.3%; Pred. No. 0.069;
Matches 60; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

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QY  121 gcaacatcagctcagtgctctcttgaggccacacaggactctg 163
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RESULT      8
PCT-US93-07231-18/c
; Sequence 18, Application PC/TUS9307231
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: MORPHOGEN-INDUCED NERVE REGENERATION AND
; TITLE OF INVENTION: REPAIR
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CREATIVE BIOMOLECULES, INC.
; STREET: 35 SOUTH STREET
; CITY: HOPKINTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 01748
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/07231
; FILING DATE: 19930729
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: KELLEY, ROBIN D.
; REGISTRATION NUMBER: 34,637
; REFERENCE/DOCKET NUMBER: CRP-070
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/248-7000
; TELEFAX: 617/248-7100
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1873 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: MURIDAE
; TISSUE TYPE: EMBRYO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 104..1393
; OTHER INFORMATION: /function= "OSTEOGENIC PROTEIN"
; OTHER INFORMATION: /product= "MOP1"

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: Sequence 18, Application PC/TUS9308885  
: GENERAL INFORMATION:

AFFILIARY: MORPHOGEN TREATMENT OF GASTROINTESTINAL  
 TITLE OF INVENTION: ULCERS  
 NUMBER OF SEQUENCES: 33  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: CREATIVE BIOMOLECULES, INC.  
 STREET: 45 SOUTH STREET  
 CITY: HOPKINTON  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 01748  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US93/08885  
 FILING DATE:  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER:  
 FILING DATE:

NAME: KELLEY ESQ, ROBIN D.  
REGISTRATION NUMBER: 34,637  
REFERENCE/DOCKET NUMBER: CRP-074  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/248-7477  
TELEFAX: 617/248-7100  
INFORMATION FOR SEQ ID NO: 18:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1873 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
ORGANISM: MURIDAE  
TISSUE TYPE: EMBRYO  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 104..1393  
OTHER INFORMATION: /function= "OSTEOGENIC PROTEIN"  
OTHER INFORMATION: /product= "MOP1"  
OTHER INFORMATION: /note= "MOP1 (CDNA)"  
PCT-US93-08885-18

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Qy	121	gccaacatgactcagtgcttctgtggggccaacaggactcttg	163
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; Sequence 5, Application PC/TUS9310520  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: OP3-INDUCED MORPHOGENESIS  
; NUMBER OF SEQUENCES: 13  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CREATIVE BIOMOLECULES, INC.  
; STREET: 45 SOUTH STREET  
; CITY: HOPKINTON  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 01748  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US93/10520  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/667,274  
; FILING DATE: 11-MAR-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/752,764  
; FILING DATE: 30-AUG-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/753,059  
; FILING DATE: 30-AUG-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/752,857  
; FILING DATE: 30-AUG-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/923,780  
; FILING DATE: 31-JUL-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/922,813  
; FILING DATE: 31-JUL-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: FITCHER ESQ. EDMUND R  
; REGISTRATION NUMBER: 27,829  
; REFERENCE/DOCKET NUMBER: CRP-076PC  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (508)435-9001  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1873 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; HYPOTHEICAL: NO  
; ANTI-SENSE: NO  
; ORIGINAL SOURCE:  
; ORGANISM: MURIDAE  
; TISSUE TYPE: EMBRYO  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 104..1393  
; OTHER INFORMATION: /function= "OSTEOGENIC PROTEIN"  
; OTHER INFORMATION: /product= "MOP1-PP"  
; OTHER INFORMATION: /note= "MOP1 (cDNA)"  
PCT-US93-10520-5

Query Match 9.6%; Score 34.2; DB 5; Length 1873;  
Best Local Similarity 58.3%; Pred. No. 0.069;  
Matches 60; Conservative 0; Mismatches 43; Indels 0; Gaps 0;  
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Db 1435 AAAGGTGTGCCCGCCCAAGGTCAGGCTCTCAGGAGAGCTAGTGCACGCCACAGGCCG 1376  
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RESULT 13  
US-08-147-203-24/c  
; Sequence 24, Application US/08147023  
; Patent No. 5468845  
; GENERAL INFORMATION:  
; APPLICANT: OPPERMAN, HERMANN  
; APPLICANT: OKAYNAK, ENGIN  
; APPLICANT: KUBERASAMPATH, THANGAVEL  
; APPLICANT: RUEGER, DAVID C.  
; APPLICANT: PANG, ROY H.L.  
; TITLE OF INVENTION: OSTEOGENIC DEVICES  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: TESTA, HURWITZ & THIBEAULT  
; STREET: 53 STATE STREET  
; CITY: BOSTON  
; STATE: MASSACHUSETTS  
; COUNTRY: U.S.A.  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/147,023  
; FILING DATE: 21-FEB-1992  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 810,560  
; FILING DATE: 20-DEC-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 827,052  
; FILING DATE: 28-JAN-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 660,162  
; FILING DATE: 22-FEB-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 621,988  
; FILING DATE: 04-DEC-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 621,849  
; FILING DATE: 04-DEC-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 616,374  
; FILING DATE: 21-NOV-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 600,024  
; FILING DATE: 18-OCT-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 599,543  
; FILING DATE: 18-OCT-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 579,865  
; FILING DATE: 07-SEP-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 569,920  
; FILING DATE: 20-AUG-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 483,913  
; FILING DATE: 22-FEB-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 422,613  
; FILING DATE: 17-OCT-1989  
; PRIOR APPLICATION DATA:





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; LENGTH: 1873 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: CDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 104..1393  
; OTHER INFORMATION: /function= "OSTEOGENIC PROTEIN"  
; OTHER INFORMATION: /product= "mop1-pp"  
; OTHER INFORMATION: /note= "mop1 CDNA"  
US-08-480-528A-5

Query Match 9.2%; Score 32.6; DB 2; Length 1873;  
Best Local Similarity 57.3%; Pred. No. 0.22;  
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QY 121 gccaccatgactcagtcgtcttgaggccacaggacttctg 163  
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Search completed: June 24, 1999, 00:38:02  
Job time: 899 sec

